IBM
3886

IBM 3886 Optical Character Reader

Product Description

The IBM 3886 is a general purpose optical character reader designed to fulfill a broad range of data entry requirements.

The basic 3886 will read numeric OCR-A font. Field installable features may be added to expand its capability to read alphameric OCR-A font, numeric and alphameric OCR-B font, and numeric handprinting.

Input document size can range from 3" x 3" to 9" x 12". Up to 33 lines of data can be read from a maximum size document.

Two models are available:
Model I — On-Line to System/370 Models 135, 145, 155 II, 158, 165 II, and 168
Model II — Off-Line to a 3410 Model 1 Magnetic Tape Unit

All 3886 machine operations are controlled by a powerful internal microprocessor. Recognition and control programs are loaded into the microprocessor from a resident DASD.

Character recognition is accomplished with a solid state scan head that passes over each line of data, projecting light on the line and collecting the reflected character images. The reflected images are sent to the 3886 microprocessor where recognition of each character takes place.

Each line is completely buffered so that the 3886 does not require special channel priority considerations.

Maintenance Features

- Off-Line Diagnostics — Microprogram fault locating tests and exercisers provide a diagnosis of each functional area of the 3886. These tests are the primary diagnostic tools.
- On-Line Tests (OLTs) — On-line diagnostic programs test channel communications and measure reading performance using customer documents.
- In-Line Routines — Microprogram routines automatically test critical circuits during customer processing.
- Error Checking — Extensive error detection via hardware and microcode. The 20 most recent errors are stored in a microprocessor storage error log.
- Maintenance Library Manual (MLM)— One manual contains all information necessary to service the 3886.
- CE Panel — Provides a digital readout of registers and error logs on-line or off-line.

- No Scope — Signal probing is performed using the MST/SLD probe.
- Preventive Maintenance — Any necessary lubrication and cleaning may be performed during a customer call. A vacuum cleaner is built into each machine for both customer and CE use.

FE Career Path

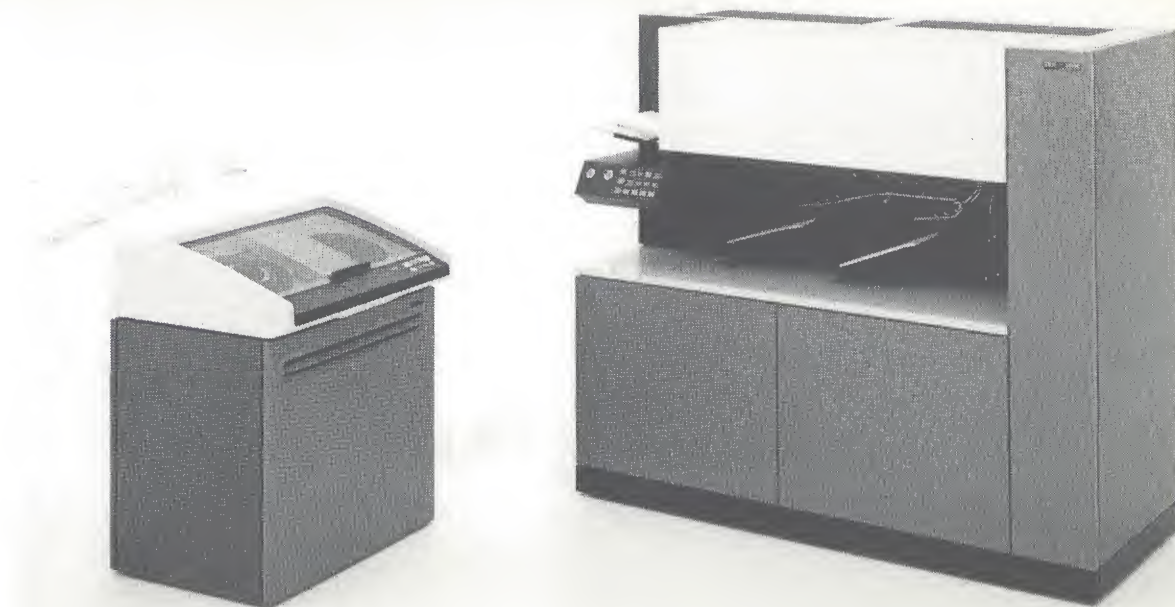The 3886 Model I is an FE Career Path "General Systems" product.

The 3886 Model II is an FE Career Path "General Systems" or "Data Systems" product.

Technology

- *Microprocessor* — Monolithic Systems Technology (MST-1 and MST-E)
- *Storage* — Field Effect Transistor (FET)
- *Scan Head Light Source and Document Sensors* — Light Emitting Diodes (LEDs)
- *Optical Read Circuits* — Special Analog Logic
- *Motor and Solenoid Drive* — Solid Logic Dense (SLD-100)
- *Read Transport* — Stepper motor control

Optional Features

Numeric Handprinting
Additional Instruction Storage
Additional Data Storage
Serial Numbering
Line Marking
Additional Hopper Capacity

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